

Technical Instructions

5 – Personal Equipment and Uniform

Part 2, Section 4

MSA Gallet F1 XF Firefighters Helmet

Description

The MSA Gallet F1 XF helmet is a safety helmet for the head intended for firefighters operations, such as fire fighting in buildings and other structures, rescue interventions and other typical tasks of fire Services. The helmet is designed for use with SCBA full face masks.

The helmet provides protection of head and face against shocks, sharp objects, splatters of solid, liquid, corrosive, chemical products (sulphuric acid, sodium hydroxide, p-xylene, butan-1-ol, n-heptane...), and molten metals, radiating heat, flames, and electric current.

The gold coated face shield protects against various risks likely to arise during firefighting interventions, except respiratory and smoke and gas / vapour emission risks. The face shield resists the splatter of chemical products identical to those of the helmet mentioned above.



MSA Gallet F1 XF Firefighters Helmet

Associated equipment

The helmet is compatible with other firefighting PPE issued by the Service, including BA masks, flashoods and firekit.

Technical Specifications

Gallet F1 XF

Technical Specifications
Rev 1 – June 25th, 2013



Characteristics

Specification	Description
Size Range	Size M : 52-62 cm / Size L : 58-65 cm
Weight (basic configuration)	Size M – 1450 g (+/- 30g) / Size L – 1580g (+/- 30g) <i>Basic configuration does not include neck curtain, ocular visor and integrated lighting module. Refer to options section.</i>
Color Range	White, Yellow, Red, Black, Hi-Viz Yellow, Hi-Viz Orange, Grey, Blue, Green, Photoluminescent <i>Different Comb color available upon request</i>
Shell Material	High Temperature Thermoplastic material, injection molded.
Impact Liner	Shock absorbing polyurethane foam, with over molded aramide reinforcement.
Chinstrap	3 points, adjustable padded chinstrap with quick release buckle
Interior	Flame resistant, padded headband, made of Nomex or Leather. Adjustable crown straps made of aramide
Face Shield	Clear or gold coated, Face guard visor. High Temperature, coated thermoplastic material

Approvals

Specification	Description
Helmet Approvals	CE Marking according to EN443 :2008 « Helmets for fire-fighting in buildings and other structures » Type B – Full coverage shell <u>Optional requirements</u> : • C – Resistance to chemicals • -30°C (***) – Very low temperatures • 3b – Coverage of front area 3b (through face shield) • E2 – Wet helmet insulation • E3 – Surface insulation (depending on front plate model)
Face shield approvals	CE marking according to EN14458, as a Face guard « High performance visors » <u>Optional requirements</u> • Use for Fire-fighting • K – Resistance to abrasion • N – Resistance to fogging • Ω- Electrical properties (Surface insulation) • UV Filter (according to EN170): • Gold Coated version – 2C-2.5 • Clear version - 2C-1.2

Gallet F1 XF

Technical Specifications
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Options and accessories

Options and accessories can be ordered along with the helmet or separately.

Specification	Description
Ocular Visor	Clear Polycarbonate visor, with adjustable fitting (patented dual pivot system) Weight : 100g +/- 10g CE marking according to EN14458 « High performance visors » - Eye-guard Optional requirements K – Resistance to Abrasion Ω - Electrical properties (Surface insulation) T – Extreme of Temperatures (-30°/+120°C) UV filter (according to EN170) - 2-1.2
Neck curtains	- Aluminized, fiber glass reinforced material (90g) - Impregnated Nomex, dual layer material (90g) - Integral, Wool / Nomex (150g) Attachment with 4 rear and 4 front clips
Integrated lighting module	4 LED 3x AAA batteries (disposable or rechargeable) Polycarbonate housing with on/off switch Weight = 100g +/- 10g
Lighting Module approval	CE Approval according to ATEX directive. ATEX approval 2G Ga Ex ia IIC T4/T3 (disposable / rechargeable batteries) ATEX approval valid only with batteries listed in instructions.



2



GALLET F1 XF Technical specifications
Non contractual – Subject to change without notice

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Note: The neck curtain is not provided with Shropshire Fire and Rescue Service helmets.

Operating instructions

Technical operating instructions, including how to achieve a good fit, are included in the attached user manual. Alternatively, a guidance video is available on the MSA website at <http://gb.msasafety.com/Head-Protection/Fire/Helmets/Gallet-F1-XF/p/000360008000001001> (available at 19-01-2014, but may not be available at a later date).

The manual and video detail some options which have not been taken by the Service. If wearers are unable to achieve a comfortable fit, please contact Technical Services, who will provide further guidance or assistance.

User care, inspection and maintenance requirements

Store the helmet in a proper storage bag to avoid extended exposure to cold, humidity, exhaust fumes, etc.

Clean the helmet (shell and internal components) after use before storing.

After each use, check every part of the helmet and especially all the fixing points:

- Correct anchor points used
- No evident wear
- No fractures or cracks
- Check that the helmet fit is always correct.
- Battery condition in lighting

The helmet and its components (including the visors and leather parts) should be cleaned regularly, and after exposure to particularly dirty environments, using soapy water and a soft lint-free cloth. Do not use detergent, solvent based products or abrasive materials.

A guidance video is available on the MSA website at <http://gb.msasafety.com/Head-Protection/Fire/Helmets/Gallet-F1-XF/p/000360008000001001> (available at 19-01-2014, but may not be available at a later date). Wearers must not attempt to disassemble and reassemble the helmet. Component replacement will be carried out trained Support Technicians or specialist contractors.

Batteries are a user replaceable component. Using a T10 screwdriver release the screw on the left case. Open the case and carefully remove the batteries. Replace with new ensuring correct alignment. Retighten the screw, being careful to avoid overtightening. See the attached manual for details.

Specialist inspection and maintenance requirements

Technical Services will arrange a complete check of the helmet with detailed inspection of each critical component, in line with the MSA recommendation that this is performed at least every two years.

If the helmet has been exposed to very severe conditions (mechanical impact, very high temperature, direct flame contact, contact with pouring metal or chemicals), contact Technical Services who will arrange the required inspection and possible repair or replacement.

Records to be maintained

User after-use inspections should be recorded in their IPDR documents.

Technical Services will retain maintenance records and certification documents provided by the maintainers for the life of the helmet.



F1XF_Lamp module
user instruction_GB.

Operating Manual

Gallet F1 XF[□]

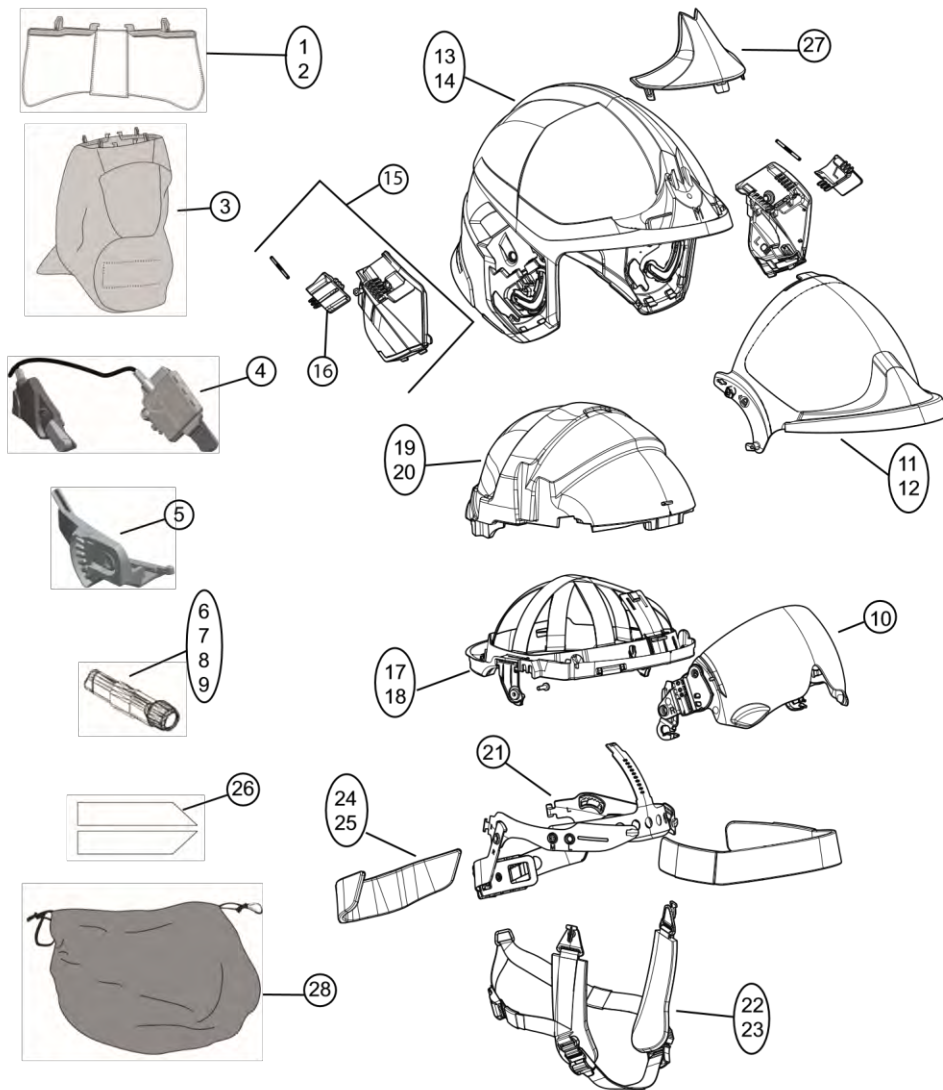
Helmet for Firefighters



MSA GALLET
Zone Industrielle Sud
01400 Châtillon sur Chalaronne
France

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Order No. CH180453 - PQ730015



No	Part	Part. No
1	Aluminized neck curtain F1 XF	GA1116A
2	Integral neck curtain F1 XF	GA1116B
3	Nomex neck curtain F1 XF	GA1116C
4	Lighting module F1 XF	GA1484
5	Torch lamp support F1 XF	GA1485D
6	Lamp XP Xenon	GA1457
7	Lamp XP LED	GA1464
8	Lamp XS zone 0	GA1466
9	Lamp AS-R	GA1481
10	Ocular visor kit F1 XF, EN14458	GA1087A
11	Face shield F1 XF, EN14458, clear	GA1086A
12	Face shield F1 XF, EN14458, metalized	GA1086B
13	Shell F1 XF, Large, Painted	GA1090-xxL S
14	Shell F1 XF, Medium, Painted	GA1090-xxM S
15	Kitfix F1 XF	GA1092A
16	Kitfix F1 XF mobile	GA1092B
17	Suspension F1 XF, EN443, Large	GA1094-L S
18	Suspension F1 XF, EN443, Medium	GA1094-M S
19	Impact liner F1 XF, EN443, L	GA1095-L S
20	Impact liner F1 XF, EN443, M	GA1095-M S
21	Ratchet cradle F1 XF	GA1098A
22	Chinstrap F1 XF, textile	GA1128A
23	Chinstrap F1 XF, leather	GA1128B
24	Textile paddings, F1 XF	GA1129A
25	Leather paddings, F1 XF	GA1129B
26	Retroreflective stickers F1 XF	GA1136-xx
27	Front plate F1 XF	GA1150
28	Protective bag for helmet	GA1382

1 Safety Regulations

1.1 Correct Use

The Gallet F1 XF helmet - hereafter called helmet - is a safety helmet for the head intended for firefighters operations, such as fire fighting in buildings and other structures, rescue interventions and other typical tasks of fire brigades. The helmet is designed for use with SCBA full face masks.

**Warning!**

The safety intended to be provided by the helmet can only be ensured when it is properly assembled and correctly fitted, removable parts shall not be worn separately.

**Danger!**

This helmet is not suitable as a motorcycle helmet.

It is imperative that this operating manual be read and observed when using the product. In particular, the safety instructions, as well as the information for the use and operation of the product, must be carefully read and observed. Furthermore, the national regulations applicable in the user's country must be taken into account for safe use.

Alternative use, or use outside this specification will be considered as non-compliance. This also applies especially to unauthorised alterations to the product and to commissioning work that has not been carried out by MSA or authorised persons.

1.2 Liability Information

MSA accepts no liability in cases where the product has been used inappropriately or not as intended. The selection and use of the product are the exclusive responsibility of the individual operator.

Product liability claims, warranties also as guarantees made by MSA with respect to the product are voided, if it is not used, serviced or maintained in accordance with the instructions in this manual.

**Danger!**

This product is supporting life and health. Inappropriate use, maintenance or servicing may affect the function of the device and thereby seriously compromise the user's life.

Before use the product operability must be verified. The product must not be used if the function test is unsuccessful, it is damaged, a competent servicing/maintenance has not been made, genuine MSA spare parts have not been used.

2 Description

The helmet provides protection of head and face against shocks, sharp objects, splatters of solid, liquid, corrosive, chemical products (sulfuric acid, sodium hydroxide, p-xylene, butan-1-ol, n-heptane...), molten metals, radiating heat, flames, electric current.

In situations where the conditions exceed those described in the specifications mentioned above, the protection of the user is not guaranteed.

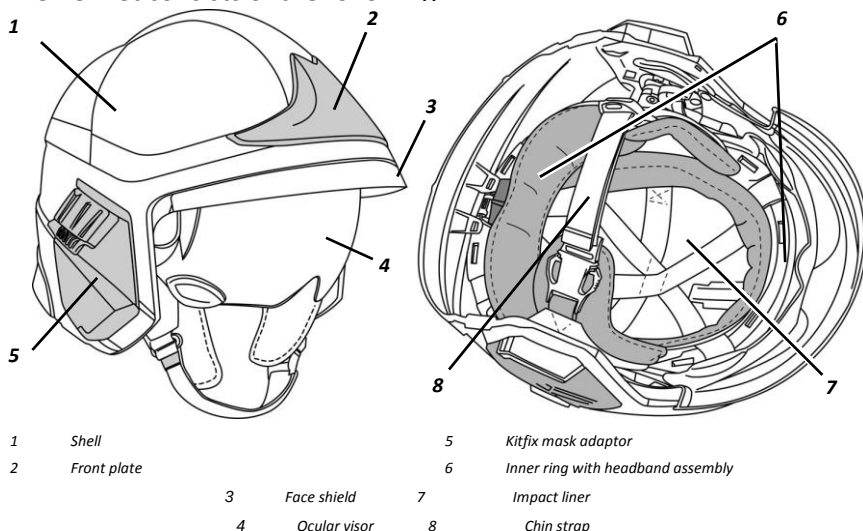
Face Shield

The clear or gold coated face shield protects against various risks likely to arise during firefighting interventions, ambulance and emergency services, except respiratory and smoke and gas / vapour emission risks. The face shield resists the splatter of chemical products identical to those of the helmet mentioned above.

2.1

Overview

The helmet consists of the following



2.2

Technical Data

Helmet sizes

- **Medium (M)** for head sizes from 52 cm to 62 cm (20.5 inches to 24.4 inches)
- **Large (L)** for head sizes from 57 cm to 65 cm (22.4 inches to 25.6 inches)

Weight**(Helmet with face shield, no options)**

- **M:** 1450 ± 30 g
 - **L:** 1580 ± 30 g
- Weight changes when options are fitted on the helmet. Check manuals for options for their exact weights.

Options	- Neck curtain (3 types) - Integrated lighting module - Lamp bracket to fit a helmet mounted flashlight - Ocular visor - Communication headset - Hearing protection with or without communication Detailed information regarding the lighting module and the communication headset can be found in the separate user manual for these devices.
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Warranty	
- Helmet	2 years, parts and labour from the date of purchase
- Options	2 years, parts and labour from the date of purchase

Legal warranty	For defects and hidden defects according to the conditions stipulated in articles 1641 and pursuant to the Civil Code (in France).
	Different national regulations may apply.

2.3 **Certifications/Approvals/Technical Specifications**

The helmet meets the 89/686/EEC directive and is certified according to EN 443:2008. Depending on the individual helmet configuration, optional EN 443:2008 requirements may be marked on the helmet, as explained below:

Standards and Directives for Helmet

Certification	Helmet	INSPEC Ltd (0194), 56 Leslie Hough Way, Salford, Greater Manchester, M6 6AJ, United Kingdom
Standards and directives:	89/686/EEC	Personal protection equipment
	EN	"Helmets for firefighting in buildings and other structures".
	443:2008	

Type B	Indicates the protection zone assured by the helmet (area 1a -1b).
Type B3b	Indicates the extended protection zone assured by the helmet (area 1a-1b and 3b)
E2	Indicates the electrical insulation of the damp helmet.
E3	Indicates a non-conductive surface of the shell.
***.	Indicates protection at low temperature down to -30°C
C	Indicates a resistance to liquid chemical products. (sulfuric acid, sodium hydroxide, p-xylene, butan-1-ol, n-heptane)

Marking Meets 96/98/EC Marine Equipment Directive
(MED) (Wheelmark):

Standards and Directives for Visors

Certification agency	Face shield:	INSPEC Ltd (0194), 56 Leslie Hough Way, Salford, Greater Manchester, M6 6AJ, United Kingdom
	Ocular visor	DEKRA EXAM (0158), Dinnendahlstr. 9, D-44809 Bochum
Standards and directives:	89/686/EEC	Personal protection equipment
	EN 14458:2004	Personal eye equipment
(+)	Conforms to the additional requirements of firefighters	
	Visor type: Eye guard	



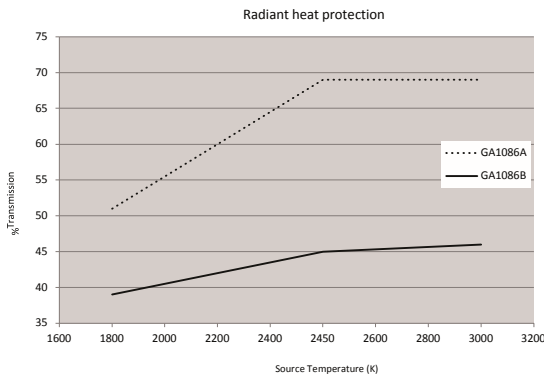
Visor type : Face guard

-30 °C; 120 °C	Extremes of temperature to which the visor has been tested (-30 °C & +120 °C)
Ω	Complies with the electrical properties
A	Resistance to high energy impact 190 ms-1
T	Resistance to medium energy impact at extremes of temperatures
AT	Resistance to high energy impact (190ms-1) at extremes of temperature
K	Resistance to abrasion according EN 168: 2001, clause 15
N	Resistance to fogging

2C-2.5 and 2C-1.2 UV Filtering according to EN170:2002

MSA

Adjusting the Helmet



The protection against radiating heat ensured by the face shields varies with the temperature of the heat source, see figure above. It is recommended to only use the face shield when the face shield can reduce the heat exposure to the wearer's eyes to less than 100W/m2.

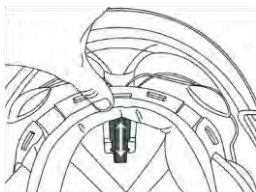


Warning!

When fitted with another item of personal protective equipment or with an accessory, (other than as supplied by the helmet manufacturer for use with this helmet) a helmet marked as complying with EN 443 might no longer satisfy all clauses of the standard. Refer to information supplied by the helmet manufacturer.

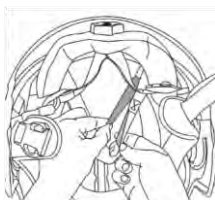
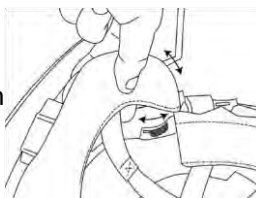
3 Adjusting the Helmet

3.1 Before Donning



- (1 Choose helmet size M or L (see Data) according to your head
- (2 Adjust front headband by sliding it up or down
- (3 Position front headband inside the helmet to avoid contact between headband and face

Adjust rear headband by rotating



- (4) on back of the head.

- (5 Adjust wearing height with the Velcro straps on the two rear suspension

3.2 Donning

The following adjustments have to be carried out when the helmet is donned.

Position
as
don-



(1) ning the

the chin strap
shown before

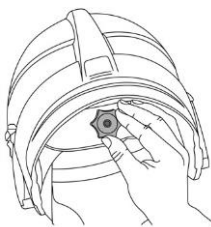
head

▷ Turn knob clockwise to tighte

▷ Turn knob anticlockwise to lo

Check that the helmet is correct

▷ The helmet should not fall off
head is leaning forward and ti
is



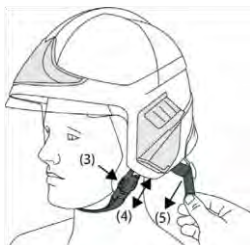
(2) Adjust
size:

headband.

ratchet headband.

(3)

The chin strap is equipped with 3 adjustment points to allow quick and simple adjustment while the helmet is on the head.



- (1) Maximally loosen the 3 adjustment
- (2) Place helmet on head. Make sure that it is well
- (3) Close the buckle of the chin
- (4) Tighten the chin
- (5) Tighten the two rear adjustment straps until a tight comfortable fit is



The wearing angle shown here is
It may vary slightly depending on user's head size and



Warning!

The helmet only meets the retention requirements of EN 443:2008 when the chin strap provided by the helmet manufacturer is worn and adjusted according to the instructions.

3.3 Visors

**Warning!**

- Visors worn over non-designated corrective frames may transmit impacts which may damage the corrective eyewear thus creating a hazard to the user.
- Service life of visors is depending on the conditions of use.
- Any face shield that has been scratched, dropped or damaged must be replaced.
- The visor type "Face guard" will provide protection to the eyes and substantial areas of the face.
- Performances of the visor are obtained only in use position (low position). Visors should be in standby position (stored under the helmet shell) during the use of a breathing apparatus (SCBA).
- Equipment not marked with "T" should only be used at non-extreme ambient temperatures.
- Ensure that you are using an EN443 helmet with a visor marked "+" for structural firefighting.
- Materials that come in contact with the wearer's skin could cause allergic reactions in susceptible individuals.

Face Shield

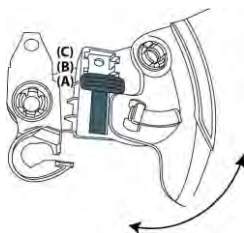
(1) Position by pulling it completely up or down.

Ocular Visor (optional)

- (1) Position by pulling it up or down.
- (2) Tilt the ocular visor towards the face for an optimal fit.

The ocular visor can be adjusted to optimize the distance between visor and face.

- (1) Don helmet and pull down ocular visor.



- (2) Unclip and clip the yellow stopper in positions (A), (B) or (C) to optimize fit of the ocular visor on the face.

4 Attaching

4.1 Neck

the Accessories Curtains

2 types of neck curtain can be installed:

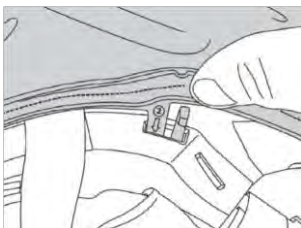
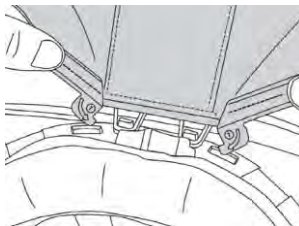
- Neck curtain for rear protection
- Integral neck curtain



The helmet has 8 slots for installing the neck curtain:

- 4 at the rear for the rear neck curtain (A, B, C, D).
- 4 more at the front for the integral neck curtain (E, F, G, H)

- (1) Place the neck curtain upside down above the helmet.
- (2) Insert the 2 clips marked **1** in the central slots.



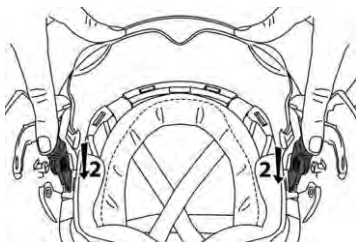
- (3) Push the 2 pressure clips **2** till locking.

For the integral neck curtain, repeat the

MSA

Attaching the Accessories

operation for the 4 front attachment points.

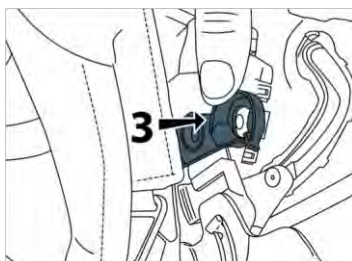


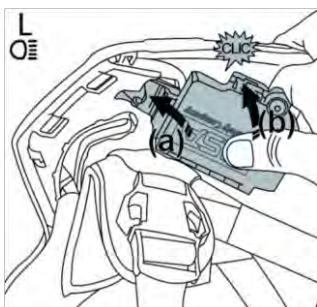
4.2 Ocular Visor

- (1) Place the ocular visor upside down above the helmet.
- (2) Insert the 2 clips

simultaneously into the dedicated slots.

- (3) Lock the ocular visor module by fixing it on the shell plot (right and left).

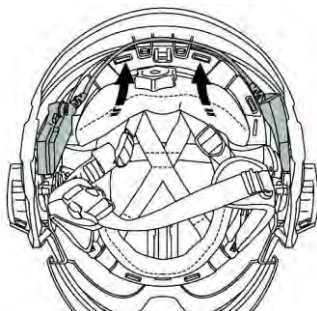




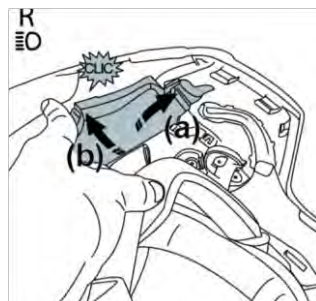
and clip into place.

4.3 Lighting Module

- (1) Place the helmet upside down with the face shield towards you.
- (2) Insert the left box (L) of the F1 XF Lightning module into the space provided on the left side of the helmet



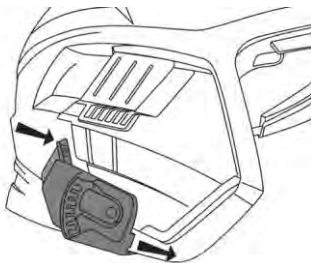
placed in the indicated area.



- (3) Follow the same procedure for the right box (R).
- (4) Ensure that the cable is

See the Lighting module user instruction delivered with the product for details on operation.

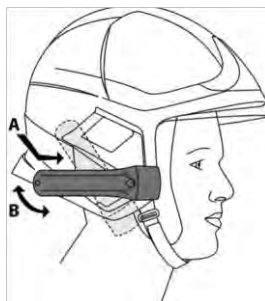
4.4 Lamp Bracket and Lamp



shape.

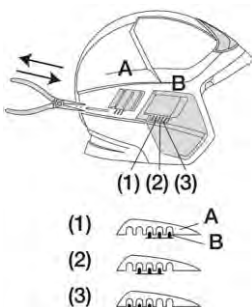
(1) Slide the lamp bracket along the shell

- (2) Insert the lamp into the lamp bracket from the rear open side (A).
- (3) Rotate, then press forward to secure the attachment (B).
- (4) Tilt the lamp up and down into the required position.
- (5) To remove the lamp, slightly press it towards the helmet while sliding it to the rear open side (A) of the lamp bracket.



4.5 Mask Adapter (Kitfix)

Attach a mask using the "Kitfix" connector kits A.



To adjust mask tightness on helmet:

- (1) Use a pair of pliers to remove the pin.
- (2) Adjust the Kitfix to position (1) (2) or (3) (according to desired mask tightness).
- (3) Use the pin to lock the Kitfix in place (push it in completely).
- (4) Test mask seal after attaching the mask if necessary.

5 Maintenance and Cleaning

The length of the useable life of this helmet will be affected by the type(s) of material used in its construction and the environments in which the helmet is used and stored. Recommendations on this topic should be sought from the manufacturer.



Warning!

Do not apply paint, stickers, cleaning products with a hydrocarbon base or solvents to the helmet or visors to prevent damaging the materials of your helmet.



Do not drop the
Prevent the helmet from impacts which could damage the shields



The parts in contact with skin have to be inspected regularly for cracks to cause discomfort. Changing those parts regularly will maintain user

To maximize helmet lifetime:

- Store the helmet in a proper storage bag and/or in a closed cabinet to avoid extended exposure to cold, humidity, exhaust fumes, etc.
- Clean the helmet (shell and internal components) after use before storing.

Checks After Each Use

After each use, check every part of the helmet and especially all the fixing points:

- Correct anchor points used
- No evident wear
- No fractures or cracks

Check that the helmet fit is always correct.

Maintenance by a Trained Maintenance Specialist

Only trained people should perform the regular maintenance.

**Attention!**

Replace any damaged parts only with original MSA parts, as only these original parts are authorized and ensure the performance of the helmet.

Helmet absorbs the energy of a blow by partial destruction of, or damage to, the helmet. Even though such damage may not be readily apparent, any helmet subjected to a severe impact should be replaced.

Periodically, perform a complete check of the helmet with detailed inspection of each critical component. MSA provides upon request a Service and Maintenance manual which details conformity criteria for all safety components of the helmet and parts replacement procedures.

MSA recommends that this complete control is performed at least every two (2) years, more regularly in case of intensive use (every year for instance), or each time the helmet has been exposed to very severe conditions (mechanical impact, very high temperature, direct flame contact, contact with pouring metal or chemicals).

**Attention!**

In case of visible damage identified during the daily check (before or after use), such as impacts, significant scratches, coating removal on the shell or visors, melted parts, broken parts, torn straps or paddings, missing components, non-operational moving parts (such as visors or ratchet), etc., the helmet should be taken to the trained maintenance technician or an MSA approved maintenance center for complete control processing.

**Attention!**

Components that are  particularly critical to the safety of the product, such as suspension, shell and impact liner, are marked with .

Treat such parts with special attention and care during inspection and assembly.

5.1 Cleaning and Disinfection

Plastic Components

- Use soapy water and a soft cloth. (Do not use detergent, solvent based products or abrasive materials).

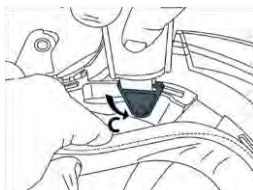
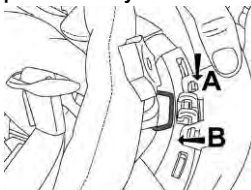
Face Shield and Ocular Visor

- Use soapy water and a soft cloth. (Do not use detergent, solvent based products or abrasive materials).

Chin Strap and Headband Liner

- (1) Remove the textile or leather components (fastened with Velcro).
- (2) Clean it as follows:
 - Textile chin strap + textile headband liner: 30°C with a mild detergent.
 - Leather chin strap + leather headband liner: Use soapy water and a lint-free soft cloth.

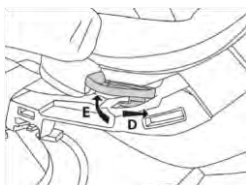
Chin Strap Disassembly before Cleaning



(1)Unlock metallic trapezoid (chin strap 3rd point) (2)Rotate the clips on right and left side of the chin

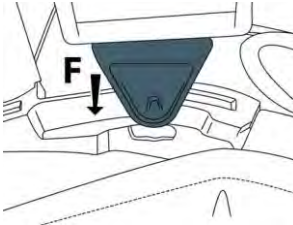
from the hook by pushing it.

strap 90 degrees towards the rear of the helmet.

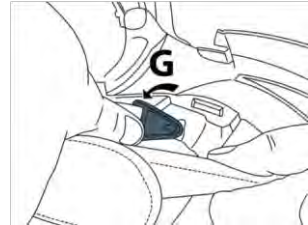


(3) Push each clip forward and raise it on the back.

Chin Strap Assembly after Cleaning

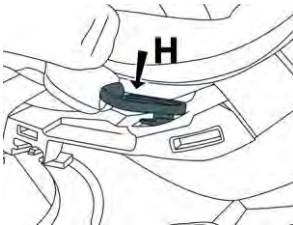


(1)

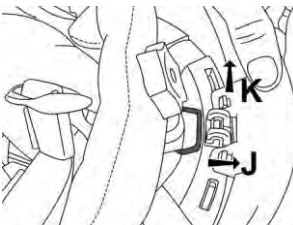
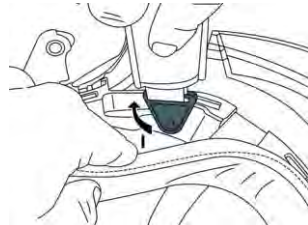


Insert both clips into the slots vertically. (2)

Rotate clips 90 degrees towards the rear and push them in.



(3) Rotate the clips 90 degrees forward into the wearing position.



Attachment of the 3rd point (at the back)

(4) Insert the metallic trapezoid and lock it in the hook by pulling it vertically. **Cleaning the Neck Curtains**

Neck curtains made of Nomex,
wool: - Cleaning at 30°C with a



Spare Parts, Accessories and Options

MSA

gentle detergent Aluminized neck curtain:

-Cleaning at 30°C with water, using a sponge.

5.2 Transport

Helmet with Visor(s)

Store the visor(s) inside the helmet (out of use position), store the helmet in a MSA Gallet protective bag (GA1382).

Visor as Spare Part

The visors have to be kept in their plastic bags until they are mounted on the helmet.

5.3 Discard

The helmet must be treated as ordinary industrial waste/non-hazardous waste according to local regulations. For further information contact MSA.

6 Spare Parts, Accessories and Options

No	Description	Part. No
1	Aluminized neck curtain F1 XF	GA1116A
2	Integral neck curtain F1 XF	GA1116B
3	Nomex neck curtain F1 XF	GA1116C
4	Lighting module F1 XF	GA1484
5	Torch lamp support F1 XF	GA1485D
6	Lamp XP Xenon	GA1457
7	Lamp XP LED	GA1464
8	Lamp XS zone 0	GA1466
9	Lamp AS-R	GA1481
10	Ocular visor kit F1 XF, EN14458	GA1087A

MSA		Spare Parts, Accessories and Options	
11	Face shield F1 XF, EN14458, clear	GA1086A	
12	Face shield F1 XF, EN14458, metalized	GA1086B	
13	Shell F1 XF, Large, Painted	GA1090-xxL	(S)
14	Shell F1 XF, Medium, Painted	GA1090-xxM	(S)
15	Kitfix F1 XF	GA1092A	
16	Kitfix F1 XF mobile	GA1092B	
17	Suspension F1 XF, EN443, Large	GA1094-L	(S)
18	Suspension F1 XF, EN443, Medium	GA1094-M	(S)
19	Impact liner F1 XF, EN443, L	GA1095-L	(S)
20	Impact liner F1 XF, EN443, M	GA1095-M	(S)
21	Ratchet cradle F1 XF	GA1098A	
22	Chinstrap F1 XF, textile	GA1128A	
23	Chinstrap F1 XF, leather	GA1128B	
24	Textile paddings, F1 XF	GA1129A	
25	Leather paddings, F1 XF	GA1129B	
26	Retroreflective stickers F1 XF	GA1136-xx	
27	Front plate F1 XF	GA1150	
28	Protective bag for helmet	GA1382	



For illustrations of parts see fold-out

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